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ECLIPSES of the fourth Satellite for the Year 1732.

D. H. M. S.

January 15	at 11	59	52*	an Immerſion.
	at 13	59	54*	an Emerſion.

After which Time the *Satellite* will paſs wide of the Shadow of *Jupiter*; and there will be no more *Eclipſes* till the Beginning of the Year 1734.

IV. *A Letter to the Preſident of the Royal Society, from Frank Nicholls, M. D. F. R. S. giving an Account of a Polypus, reſembling a Branch of the Pulmonary Vein, coughed up by an aſthmatic Perſon.*

S I R,

N*icholas Tulpius*, in the 7th Obſervation of his ſecond Book, preſents us with the Caſe of a Man who, with a large Effuſion of Blood, threw up, by coughing, two Branches of the *Pulmonary Vein*, fix Inches long, with their ſeveral Ramifications, freed from the *Trachæa* and Substance of the Lungs, as if diſſected by the moſt accurate Anatomist. This Caſe he obſerves to be very extraordinary, and not to be parallell'd in the Writings of phyſical Authors.

A little Acquaintance with the Structure of the Lungs ſufficiently evinces the Impoſſibility of the Fact,

as

as there stated ; wherefore (not doubting the Veracity of the Author) I always believed him to be deceived by a *Polypus* of the Vein, which might be cough'd up in the Manner by him described.

But the following Case will give another Light to this Affair. *July* the 18th 1730, I was consulted by Mr. ——— of *Black Friars*, on Behalf of his Brother, living in *Essex*, who was asthmatic, and cough'd up Phlegm resembling Worms ; to remedy which, I directed the Use of a *Lac Ammoniacum* with Squills ; from the Use of which he expectorated more easily, but continued still to cough up the same Substances.

The 11th Instant, on the Road to *London*, he was seized with a Shivering, and pleuretic Pains ; a white Tongue, hard and quick Pulse, &c. By repeated Bleeding his Pains decreased, but the Cough remained more violent than usual. On examining the expectorated Phlegm (which was tinged with Blood) I found it fibrous, and (when expanded in Water) exactly resembling the Vessels in the Lungs. These Substances are as tough as the Coats of the Veins, and (like them) hollow. Mr. — has cough'd up more or less of them every Day, for seven Years ; sometimes perfectly white, and sometimes tinged with Blood : Notwithstanding which, he has had no other Complaint, has had a good Appetite, and Colour, and a greater Share of Fat than any Man would choose. The Specimen here shewn (as in Fig. 1.) was expectorated, when I was present, the 16th Instant. It nearly resembles the first Draught of *Tulpius*, and is no more than a viscid Phlegm, secreted by the relaxed Glands
of

of the *Trachæa*, and afterwards concreted by the Heat of the Part. As this may serve to explain the remarkable Case of *Tulpius*, so I thought it worth being communicated to the Society. I am,

With great Respect,

June 17.
1731.

Your very humble Servant,

FRANK NICHOLLS.

V. *An Account of an Experiment explaining a mechanical Paradox, viz. that two Bodies of equal Weight suspended on a certain sort of Balance [as in Tab. Fig. 2.] do not lose their Æquilibrium, by being removed one farther from, the other nearer to the Center. By the Rev. T. J. Defaguliers, L. L. D. & F. R. S.*

Proposition.

IF the two Weights P, W, in Fig. 3. hang at the Ends of the Balance A B, whose Center of Motion is C; those Weights will act against each other (because their Directions are contrary) with Forces made up of the Quantity of Matter in each multiplied by its Velocity; that is, by the Velocity which the Motion of the Balance turning about C will give to the Body suspended. Now the Velocity of an heavy Body is its perpendicular Ascent or Descent, as will appear

R

by